

L102 ANSWER 7 OF 19 HCA COPYRIGHT 2008 ACS on STN

AN 129:96671 HCA Full-text

TI Radiation-curable coating compositions for  
optical fibers

IN Toba, Yasumasa

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

-----  
-----  
PI JP 10158039 A 19980616 JP 1996-313298

199611

25

<--

PRAI JP 1996-313298 19961125 <--

OS MARPAT 129:96671

AB The compns. comprise (A) onium borate complexes as  
polymn. initiators

consisting of onium cations and borate anions (BYmZn)<sup>-</sup> (Y =  
F, Cl; Z

= Ph substituted by  $\geq 2$  electron attractive groups selected  
from F,

cyano, NO<sub>2</sub>, and CF<sub>3</sub>; m = 0-3; n = 1-4; m + n = 4) and (B)  
acidcurable

compds. Optical fibers coated with the compns. are also  
claimed. Thus, a 1-mm quartz rod was coated with a compn.  
comprising

diphenyl(9-anthrylmethyl)sulfonium tetrakis  
(pentafluorophenyl)borate

3, radically polymerizable compd. Aronix M 1100 40, urethane  
acrylate

UA 306H 20, and tetrahydrofurfuryl acrylate 10 parts and  
irradiated

with UV to give an optical fiber showing no strain.

IT 153606-14-5

(polymn. initiator; radiation-curable coatings for  
optical fibers)

RN 153606-14-5 HCA

CN Iodonium, diphenyl-, tetrakis(2,3,4,5,6-  
pentafluorophenyl)borate(1-)

(1:1) (CA INDEX NAME)

CM 1

CRN 47855-94-7

CMF C24 B F20

CM 2

CRN 10182-84-0  
CMF C12 H10 I  
Ph I + Ph  
IC ICM C03C025-02  
ICS C09D007-00; G02B006-44  
CC 42-10 (Coatings, Inks, and Related Products)  
Section cross-reference(s): 73  
ST UV curable coating sulfonium borate initiator; optical fiber coating sulfonium borate catalyst  
IT Coating materials  
(UV-curable; radiation-curable coatings for optical fibers)  
IT Polymerization catalysts  
(photopolymer., onium borate complexes; radiation-curable coatings for optical fibers)  
IT Optical fibers  
(radiation-curable coatings for optical fibers)  
IT Epoxy resins, uses  
(radiation-curable coatings for optical fibers)  
IT Coating materials  
(radiation-curable; radiation-curable coatings for optical fibers)  
IT 153606-14-5 193957-53-8, Dimethylphenacylsulfonium tetrakis(pentafluorophenyl)borate 208932-32-5  
(polymn. initiator; radiation-curable coatings for optical fibers)  
IT 146320-67-4P  
(radiation-curable coatings for optical fibers)  
IT 209789-97-9P 209789-98-0P  
(radiation-curable coatings for optical fibers)  
IT 25085-98-7, ERL 4221  
(radiation-curable coatings for optical fibers)